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	Application No.	,081 KADOKURA ET AL.	
Nation of Allowahility	10/721,081		
Notice of Allowability	Examiner	Art Unit	
	Rodney G. McDonald	1753	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due co	urse. THIS
1. X This communication is responsive to After Final Amendme	ent 7-21-06.		
2. 🛮 The allowed claim(s) is/are <u>1-22</u> .			
 3. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do			n from the
International Bureau (PCT Rule 17.2(a)).		manorial olago application	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit to	MENT of this application. itted. Note the attached EXAMINER	'S AMENDMENT or NO	
INFORMAL PATENT APPLICATION (PTO-152) which give		tion is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") must			
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1) hereto or 2) to Paper No./Mail Date		office action of	
(b) including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment or in the C	niice action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the b d).	ack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-	152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. X Interview Summary	(PTO-413),	102)
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Daí 08), 7. ⊠ Examiner's Amendr		
Paper No./Mail Date <u>2-2-04</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Statement	ent of Reasons for Allow	ance
of Biological Material	9.	Markey I fre B	
		RODNEY G. MCDONA PRIMARY EXAMINE	LD

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kenneth Salen on July 31, 2006.

The application has been amended as follows:

Claim 13, line 22, insert the phrase "with a sputtering current" after the word "sputtering".

The following is an examiner's statement of reasons for allowance:

Claims 1-12 are allowable over the prior art of record because the prior art of record does not teach the claimed sputtering apparatus comprising a box-shaped facing-targets sputtering unit having a facing-mode magnetic field extending in a direction perpendicular to the surface of the target and a magnetron-mode magnetic field extending in a direction parallel to the target surface and wherein the sputtering unit is provided on the vacuum chamber such that the opening face faces the vacuum chamber and a substrate on which a thin film is to be formed, the substrate being disposed in the vacuum chamber; and an anode electrode comprises substantially the frame and the shutting plates; and further comprising an auxiliary electrode which absorbs electrons, in a plasma confinement space being provided in the interior of the sputtering unit.

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Claims 13-22 are allowable over the prior art of record because the prior art of record does not teach the claimed sputtering method including utilizing a box-shaped facing-targets sputtering unit having a facing-mode magnetic field extending in a direction perpendicular to the surface of the target and a magnetron-mode magnetic field extending in a direction parallel to the target surface and wherein the sputtering unit is provided on the vacuum chamber such that the opening face faces the vacuum chamber and a substrate on which a thin film is to be formed, the substrate being disposed in the vacuum chamber; and an anode electrode comprises substantially the frame and the shutting plates; and further comprising an auxiliary electrode which absorbs electrons, in a plasma confinement space being provided in the interior of the sputtering unit in order to deposit a compound thin film.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rodney G. McDonald Primary Examiner

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August 1, 2006